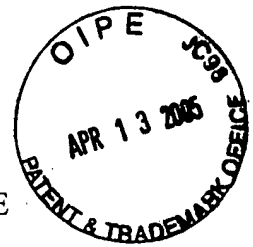


P27191.A02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Douglas D. COOLBAUGH

Group Art Unit: 2811

Serial No: 10/707,905

Examiner: Hu Shouxiang

Filed: January 23, 2004

For: **STRUCTURE AND METHOD FOR HYPER-ABRUPT JUNCTION
VARACTORS**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop Amendment
Randolph Building
401 Dulany Street
Alexandria VA 22314

Sir :

Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to applicant's duty of disclosure under 37 CFR §1.56, applicant respectfully brings the following documents, listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Applicant respectfully requests that the Examiner consider the materials cited and indicate such consideration by appropriately initialing the enclosed PTO-1449 Form and including a copy of the initialed form in the next official communication.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

Since this Statement is being submitted after first action on the merits but before the mailing of the final rejection, Applicant submits herewith the requisite fee of \$180.00 set forth in

37 C.F.R. § 1.17(p).

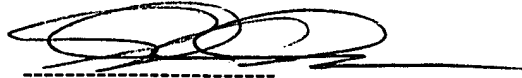
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P27191.A02

Please charge any deficiencies in fees and credit any overpayment of fees to deposit
account no. 09-0456.

Respectfully submitted,
Douglas D. COOLBAUGH

A handwritten signature in black ink, appearing to read 'Andrew M. Calderon', is written over a horizontal dashed line.

Andrew M. Calderon
Registration No.38,093

April 11, 2005
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Application No.
10/707,905

Applicant
Douglas D. COOLBAUGH

Filing Date
January 23, 2004

Group 2811	
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U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		1	English Language Abstract of JP 4-062977.
		2	English Language Abstract of JP 2003-318414.
		3	English Language Abstract of JP 1-019779.
		4	An Article of VELLANKI et al., entitled: "Highly Conductive n+ Layers in InP:Fe Created by MeV Energy Si, S, and Si/S Implantation for Application to Microwave Devices", Journal of Electronic Materials, Vol. 22, No. 1, 1993, pp. 03-10.

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.